Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

(1)

Measurment taken on :

Item No :	1
Item Name :	Removing and refixing stone slabs of drains and pointing in CM (1:3) with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	Unit
Car Foam Wash Store Rd							
		LHS					
0	30	1	10.00	1.65		16.50	
30	60	1	15.00	1.65		24.75	
60	90	1	19.00	1.65		31.35	
90	120	1	10.00	1.65		16.50	
120	150	1	17.00	1.65		28.05	
150	180	1	12.00	1.65		19.80	
		RHS					
0	30	1	13.00	1.65		21.45	
30	60	1	8.00	1.65		13.20	
60	90	1	11.00	1.65		18.15	
90	120	1	14.00	1.65		23.10	
120	150	1	10.00	1.65		16.50	
150	180	1	6.00	1.65		9.90	
				Total		239.25	Sqm

Measurement date :- 26/12/2019

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

(1)

Scanned by CamScanner

(2)

ame of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli	
asurment taken on :	
em No :	2
em Name :	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all lead and lift and as per the direction of Engineer in charge

CHAINAGE		NO	L (M)	B(M)	D(M)	QTY	UNIT
FROM	TO						
Car Foam Wash Store Rd							
		LHS					
0	30	1	25.00	0.50	0.40	5.00	
30	60	1	21.00	0.50	0.40	4.20	
60	90	1	28.00	0.50	0.40	5.60	
90	120	1	26.00	0.50	0.40	5.20	
120	150	1	30.00	0.50	0.40	6.00	
150	180	1	19.00	0.50	0.40	3.80	
		RHS					
0	30	1	28.00	0.50	0.40	5.60	
30	60	1	22.00	0.50	0.45	4.95	
60	90	1	18.00	0.50	0.45	4.05	
90	120	1	30.00	0.50	0.45	6.75	
120	150	1	24.00	0.50	0.40	4.80	
150	180	1	27.00	0.50	0.40	5.40	
Culvert							
Ganesh Upahar Front		1	6.70	1.50	1.00	10.05	
Sri Krishna Condiments		1	8.00	1.50	1.00	12.00	
Amco layout, 3rd cross		1	8.40	1.50	1.00	12.60	
				Total		96.00	Cum

Measurements date :- 28.12.2019

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer
Road Infrastructure, Town Engineer
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

(2)

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	3
Item Name :	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	Unit
Car Foam Wash Store Rd							
		LHS					
0	30	1	4.90	1.65		8.09	
30	60	1	6.00	1.65		9.90	
60	90	1	2.50	1.65		4.13	
90	120	1	3.10	1.65		5.12	
120	150	1	6.30	1.65		10.40	
150	180	1	3.90	1.65		6.44	
		RHS					
0	30	1	5.90	1.65		9.74	
30	60	1	3.40	1.65		5.61	
60	90	1	2.50	1.65		4.13	
90	120	1	4.80	1.65		7.92	
120	150	1	4.10	1.65		6.77	
150	180	1	7.60	1.65		12.54	
				Total		90.75	Sqm

Measurement date :- 30/12/2019

Assistant Executive Engineer
R. Nagar, Sub-Divi...
RIDL, BBMP, Bangalore

Contractor

SILICON CONSULTING ENGINEERS
K.R
Consultant

Assistant Engineer

Asst. Executive Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Scanned by CamScanner

(4)

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli	
Measurment taken on :	
Item No :	4
Item Name :	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT
Culvert							
Ganesh Upahar Front		1	6.70	1.50	0.15	1.51	
Sri Krishna Condiments		1	8.00	1.50	0.15	1.80	
Amco layout, 3rd cross		1	8.40	1.50	0.15	1.89	
				Total		5.20	Cum

measurement date : 03/01/2020

AE

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 92

(4)

Scanned by CamScanner

(5)

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	5
Item Name :	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13 cement mortar 1:6 with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT
Culvert Wall							
Ganesh Upahar Front		2	6.70	0.45	0.80	4.82	
Sri Krishna Condiments		2	8.00	0.45	0.80	5.76	
Amco layout, 3rd cross		2	8.40	0.45	0.80	6.05	
				Total		**16.63**	**Cum**

Measurement date :- 06/01/2020

AE

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Executive Engineer
Contractor
Nagar, Sub-Division
L, BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Asst. Executive Engineer

(5)

Scanned by CamScanner

(2)

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	6
Item Name :	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L(M)	B(M)	D(M)	QTY	UNIT
Culvert Bed							
Ganesh Upahar Front		1	6.70	0.50	0.125	0.42	
Sri Krishna Condiments		1	8.00	0.50	0.125	0.50	
Amco layout, 3rd cross		1	8.40	0.50	0.125	0.53	
Culvert Wall							
Ganesh Upahar Front		2	6.70	0.45	0.10	0.60	
Sri Krishna Condiments		2	8.00	0.45	0.10	0.72	
Amco layout, 3rd cross		2	8.40	0.45	0.10	0.76	
				Total		3.52	Cum

Measurement date :- 25/01/2020

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bbuhat Bengaluru Mahanagara Palike
Bengaluru - 92

AE

Assistant Engineer

Asst. Executive Engineer

(6)

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	8
Item Name :	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
Car Wash Store Road									
0.00	30.00	1	30.00	2.00	2.30	2.15	0.20	12.90	
30.00	60.00	1	30.00	2.30	2.20	2.25	0.20	13.50	
60.00	90.00	1	30.00	2.20	2.20	2.20	0.20	13.20	
90.00	120.00	1	30.00	2.20	2.40	2.30	0.20	13.80	
120.00	150.00	1	30.00	2.40	2.00	2.20	0.20	13.20	
150.00	180.00	1	30.00	2.00	2.10	2.05	0.20	12.30	
180.00	210.00	1	30.00	2.10	2.20	2.15	0.20	12.90	
210.00	219.10	1	9.10	2.20	2.30	2.25	0.20	4.10	
				Total				95.90	Cum

Measurement date:- 10/01/2020

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Contractor / Executive Engineer / Consultant
Sub-Division,
P. Bangalore

Assistant Engineer

Asst. Executive Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	9
Item Name :	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge

CHAINAGE		NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
FROM	TO								
Bhadrappa Layout Mn Road									
FROM Ch: 588.00m									
588.00	618.00	1	30.00	2.00	2.00	2.00		60.00	
618.00	636.20	1	18.20	3.90	4.00	3.95		71.89	
636.20	666.20	1	30.00	4.00	4.30	4.15		124.50	
666.20	696.20	1	30.00	4.30	2.70	3.50		105.00	
696.20	701.00	1	4.80	2.70	2.80	2.75		13.20	
701.00	717.60	1	16.60	2.00	2.30	2.15		35.69	
717.60	747.60	1	30.00	3.80	3.70	3.75		112.50	
747.60	777.60	1	30.00	3.70	3.70	3.70		111.00	
777.60	807.60	1	30.00	3.70	3.60	3.65		109.50	
807.60	837.60	1	30.00	3.60	3.80	3.70		111.00	
837.60	865.20	1	27.60	3.80	3.50	3.65		100.74	
865.20	895.20	1	30.00	2.80	2.60	2.70		81.00	
895.20	908.10	1	12.90	2.60	2.60	2.60		33.54	
Patch		1	7.50	4.20	4.00	4.10		30.75	
						Total		1100.31	Sqm

Measurement date : 10/01/2020

AE

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Contractor

Consultant

Assistant Engineer

Asst Executive Engineer

Scanned by CamScanner

(9)

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

asurment taken on :

m No :	10
m Name :	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications with all lead and lift and as per the direction of Engineer in

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
Bhadrappa Layout Mn Road									
FROM Ch: 588.00m									
588.00	618.00	1	30.00	2.00	2.00	2.00	0.15	9.00	
618.00	636.20	1	18.20	3.90	4.00	3.95	0.15	10.78	
636.20	666.20	1	30.00	4.00	4.30	4.15	0.15	18.68	
666.20	696.20	1	30.00	4.30	2.70	3.50	0.15	15.75	
696.20	701.00	1	4.80	2.70	2.80	2.75	0.15	1.98	
701.00	717.60	1	16.60	2.00	2.30	2.15	0.15	5.35	
717.60	747.60	1	30.00	3.80	3.70	3.75	0.15	16.88	
747.60	777.60	1	30.00	3.70	3.70	3.70	0.15	16.65	
777.60	807.60	1	30.00	3.70	3.60	3.65	0.15	16.43	
807.60	837.60	1	30.00	3.60	3.80	3.70	0.15	16.65	
837.60	865.20	1	27.60	3.80	3.50	3.65	0.15	15.11	
865.20	895.20	1	30.00	2.80	2.60	2.70	0.15	12.15	
895.20	908.10	1	12.90	2.60	2.60	2.60	0.15	5.03	
Patch		1	7.50	4.20	4.00	4.10	0.15	4.61	
Car Wash Store Road									
0.00	30.00	1	30.00	2.00	2.30	2.15	0.15	9.68	
30.00	60.00	1	30.00	2.30	2.20	2.25	0.15	10.13	
60.00	90.00	1	30.00	2.20	2.20	2.20	0.15	9.90	
90.00	120.00	1	30.00	2.20	2.40	2.30	0.15	10.35	
120.00	150.00	1	30.00	2.40	2.00	2.20	0.15	9.90	
150.00	180.00	1	30.00	2.00	2.10	2.05	0.15	9.23	
180.00	210.00	1	30.00	2.10	2.20	2.15	0.15	9.68	
210.00	219.10	1	9.10	2.20	2.30	2.25	0.15	3.07	
					Total			236.97	Cum

measurement Date: 13/01/2020

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

AE

Contractor
Engineer
Consultant
Sub-Division,
BBMP, Bangalore

Assistant Engineer

Asst. Executive Engineer

(9)

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurement taken on :

Item No :	11
Item Name :	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
Bhadrappa Layout Mn Road									
FROM Ch: 588.00m									
588.00	618.00	1	30.00	2.00	2.00	2.00	0.225	13.50	
618.00	636.20	1	18.20	3.90	4.00	3.95	0.225	16.18	
636.20	666.20	1	30.00	4.00	4.30	4.15	0.225	28.01	
666.20	696.20	1	30.00	4.30	2.70	3.50	0.225	23.63	
696.20	701.00	1	4.80	2.70	2.80	2.75	0.225	2.97	
701.00	717.60	1	16.60	2.00	2.30	2.15	0.225	8.03	
717.60	747.60	1	30.00	3.80	3.70	3.75	0.225	25.31	
747.60	777.60	1	30.00	3.70	3.70	3.70	0.225	24.98	
777.60	807.60	1	30.00	3.70	3.60	3.65	0.225	24.64	
807.60	837.60	1	30.00	3.60	3.80	3.70	0.225	24.98	
837.60	865.20	1	27.60	3.80	3.50	3.65	0.225	22.67	
865.20	895.20	1	30.00	2.80	2.60	2.70	0.225	18.23	
895.20	908.10	1	12.90	2.60	2.60	2.60	0.225	7.55	
Patch		1	7.50	4.20	4.00	4.10	0.225	6.92	
Car Wash Store Road									
0.00	30.00	1	30.00	2.00	2.30	2.15	0.20	12.90	
30.00	60.00	1	30.00	2.30	2.20	2.25	0.20	13.50	
60.00	90.00	1	30.00	2.20	2.20	2.20	0.20	13.20	
90.00	120.00	1	30.00	2.20	2.40	2.30	0.20	13.80	
120.00	150.00	1	30.00	2.40	2.00	2.20	0.20	13.20	
150.00	180.00	1	30.00	2.00	2.10	2.05	0.20	12.30	
180.00	210.00	1	30.00	2.10	2.20	2.15	0.20	12.90	
210.00	219.10	1	9.10	2.20	2.30	2.25	0.20	4.10	
				Total				**343.46**	**Cum**

measurement date :- 20/01/2020

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Contractor

Engineer Consultant
Nagar, Sub-Division,
BBMP, Bangalore

Assistant Engineer

Asst. Executive Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No : 12

Item Name : KSRRB M 500-6. Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
Bhadrappa Layout Mn Road									
FROM Ch: 588.00m									
588.00	618.00	1	30.00	2.00	2.00	2.00		60.00	
618.00	636.20	1	18.20	3.90	4.00	3.95		71.89	
636.20	666.20	1	30.00	4.00	4.30	4.15		124.50	
666.20	696.20	1	30.00	4.30	2.70	3.50		105.00	
696.20	701.00	1	4.80	2.70	2.80	2.75		13.20	
701.00	717.60	1	16.60	2.00	2.30	2.15		35.69	
717.60	747.60	1	30.00	3.80	3.70	3.75		112.50	
747.60	777.60	1	30.00	3.70	3.70	3.70		111.00	
777.60	807.60	1	30.00	3.70	3.60	3.65		109.50	
807.60	837.60	1	30.00	3.60	3.80	3.70		111.00	
837.60	865.20	1	27.60	3.80	3.50	3.65		100.74	
865.20	895.20	1	30.00	2.80	2.60	2.70		81.00	
895.20	908.10	1	12.90	2.60	2.60	2.60		33.54	
Patch		1	7.50	4.20	4.00	4.10		30.75	
Car Wash Store Road									
0.00	30.00	1	30.00	2.00	2.30	2.15		64.50	
30.00	60.00	1	30.00	2.30	2.20	2.25		67.50	
60.00	90.00	1	30.00	2.20	2.20	2.20		66.00	
90.00	120.00	1	30.00	2.20	2.40	2.30		69.00	
120.00	150.00	1	30.00	2.40	2.00	2.20		66.00	
150.00	180.00	1	30.00	2.00	2.10	2.05		61.50	
180.00	210.00	1	30.00	2.10	2.20	2.15		64.50	
210.00	219.10	1	9.10	2.20	2.30	2.25		20.48	
				Total				1579.79	Sqm

measurement date 1- 26/02/2020, 14/03/2020

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02

Contractor

Consultant

Assistant Engineer

Asst. Executive Engineer

Scanned by CamScanner

(12)

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	13
Item Name :	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
Tack Coat Area								4136.90	
Deduct Prime coat area								-1579.79	
				Total				2557.11	Sqm

measurement date/- 11/03/2020, 16/03/2020

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Contractor / Engineer / Consultant
Nagar, Sub-Division,
BBMP, Bangalore

Assistant Engineer

Asst. Executive Engineer

(12)

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	14
Item Name :	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
Bhadrappa Layout Mn Road									
FROM Ch: 588.00m									
588.00	618.00	1	30.00	3.60	3.80	3.70		111.00	
618.00	636.20	1	18.20	3.80	3.60	3.70		67.34	
636.20	666.20	1	30.00	5.70	7.20	6.45		193.50	
666.20	696.20	1	30.00	7.20	9.00	8.10		243.00	
696.20	701.00	1	4.80	9.00	10.20	9.60		46.08	
701.00	717.60	1	16.60	9.00	8.50	8.75		145.25	
717.60	747.60	1	30.00	9.70	9.50	9.60		288.00	
747.60	777.60	1	30.00	9.50	9.70	9.60		288.00	
777.60	807.60	1	30.00	9.70	10.20	9.95		298.50	
807.60	837.60	1	30.00	10.20	10.20	10.20		306.00	
837.60	865.20	1	27.60	10.20	13.20	11.70		322.92	
865.20	895.20	1	30.00	7.70	7.80	7.75		232.50	
895.20	908.10	1	12.90	7.80	7.40	7.60		98.04	
Patch		1	7.50	4.20	4.00	4.10		30.75	
Car Wash Store Road									
0.00	30.00	1	30.00	7.60	7.00	7.30		219.00	
30.00	60.00	1	30.00	7.00	6.50	6.75		202.50	
60.00	90.00	1	30.00	6.50	6.10	6.30		189.00	
90.00	120.00	1	30.00	6.10	7.30	6.70		201.00	
120.00	150.00	1	30.00	7.30	6.60	6.95		208.50	
150.00	180.00	1	30.00	6.60	6.40	6.50		195.00	
180.00	210.00	1	30.00	6.40	6.30	6.35		190.50	
210.00	219.10	1	9.10	6.30	7.00	6.65		60.52	
					Total			4136.90	Sqm

Measurement date:- 11/03/2020, 16/03/2020

AE

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Executive Engineer
Contractor
Road Infrastructure Division,
BBDL, BBMP, Bangalore

Consultant

Assistant Engineer

Asst. Executive Engineer

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(14)

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No : 15

Item Name : KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen with all lead and lift and as per the direction of Engineer in charge

CHAINAGE		NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT
FROM	TO								
Bhadrappa Layout Mn Road									
FROM Ch: 588.00m									
588.00	618.00	1	30.00	3.60	3.80	3.70	0.050	5.55	
618.00	636.20	1	18.20	3.80	3.60	3.70	0.050	3.37	
636.20	666.20	1	30.00	5.70	7.20	6.45	0.050	9.68	
666.20	696.20	1	30.00	7.20	9.00	8.10	0.050	12.15	
696.20	701.00	1	4.80	9.00	10.20	9.60	0.050	2.30	
701.00	717.60	1	16.60	9.00	8.50	8.75	0.050	7.26	
717.60	747.60	1	30.00	9.70	9.50	9.60	0.050	14.40	
747.60	777.60	1	30.00	9.50	9.70	9.60	0.050	14.40	
777.60	807.60	1	30.00	9.70	10.20	9.95	0.050	14.93	
807.60	837.60	1	30.00	10.20	10.20	10.20	0.050	15.30	
837.60	865.20	1	27.60	10.20	13.20	11.70	0.050	16.15	
865.20	895.20	1	30.00	7.70	7.80	7.75	0.050	11.63	
895.20	908.10	1	12.90	7.80	7.40	7.60	0.050	4.90	
Patch		1	7.50	4.20	4.00	4.10	0.050	1.54	
Car Wash Store Road									
0.00	30.00	1	30.00	2.00	2.30	2.15	0.050	3.23	
30.00	60.00	1	30.00	2.30	2.20	2.25	0.050	3.38	
60.00	90.00	1	30.00	2.20	2.20	2.20	0.050	3.30	
90.00	120.00	1	30.00	2.20	2.40	2.30	0.050	3.45	
120.00	150.00	1	30.00	2.40	2.00	2.20	0.050	3.30	
150.00	180.00	1	30.00	2.00	2.10	2.05	0.050	3.08	
180.00	210.00	1	30.00	2.10	2.20	2.15	0.050	3.23	
210.00	219.10	1	9.10	2.20	2.30	2.25	0.050	1.02	
					Total			157.52	Cum

measurement date : 29/02/2020, 15/03/2020

AE

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Contractor Engineer Consultant
Manar, Sub-Division
BBMP, Bangalore

Assistant Engineer

Asst. Executive Engineer

(14)

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Item No :	1								
Item Name :	Removing and refixing stone slabs of drains and pointing in CM (1:3) with all lead and lift and as per the direction of Engineer in charge								
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT	RATE	AMOUNT
From Premeasurement Page No 1						239.25			
				Total		239.25	Sqm	111.30	26628.53
Item No :	2								
Item Name :	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all lead and lift and as per the direction of Engineer in charge								
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT	RATE	AMOUNT
From Premeasurement Page No 2						96.00			
				Total		96.00	Cum	214.50	20592.15
Item No :	3								
Item Name :	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in charge								
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT	RATE	AMOUNT
From Premeasurement Page No 3						90.75			
				Total		90.75	Sqm	742.00	67336.50
Item No :	4								
Item Name :	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. with all lead and lift and as per the direction of Engineer in charge								
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT	RATE	AMOUNT
From Premeasurement Page No 4						5.20			
				Total		5.20	Cum	5421.90	28180.33

Consultant Engineer, Consultant
Nagar Sub-Division,
BBMP, Bangalore

Assistant Engineer

Assistant Executive Engineer
Road Infrastructure (Yelahanka Divisio
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 92

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Item No :	5								
Item Name :	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13 cement mortar 1:6 with all lead and lift and as per the direction of Engineer in charge								
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT	RATE	AMOUNT
From Premeasurement Page No 5						16.63			
				Total		16.63	Sqm	4871.76	81027.11
Item No :	6								
Item Name :	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications with all lead and lift and as per the direction of Engineer in charge								
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(M)	D(M)	QTY	UNIT	RATE	AMOUNT
From Premeasurement Page No 6						3.52			
				Total		3.52	Sqm	5599.98	19727.33

Consultant

Assistant Engineer

Assistant Executive Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurment taken on :

Item No :	7								
Item Name :	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge with all lead and lift and as per the direction of Engineer in charge								
CHAINAGE		NO	L (M)	B(M)	D(M)	QTY	UNIT	RATE	AMOUNT
FROM	TO								
Culvert Slab									
Ganesh Upahar Front		1	6.70	1.20		8.04			
Sri Krishna Condiments		1	8.00	1.20		9.60			
Amco layout, 3rd cross		1	8.40	1.20		10.08			
				Total		27.72	Sqm	3640.00	100900.80

Measurement date : 06/02/2020

AE

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Executive Engineer Consultant

Assistant Engineer

Asst. Executive Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Item No :	8											
Item Name :	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications with all lead and lift and as per the direction of Engineer in charge											
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT	
From Premeasurement Page No 7								95.90				
							Total	95.90	Cum	57.03	5468.70	
Item No :	9											
Item Name :	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge											
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT	
From Premeasurement Page No 8								1100.31				
							Total	1100.31	Sqm	41.34	45486.82	
Item No :	10											
Item Name :	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications with all lead and lift and as per the direction of											
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT	
From Premeasurement Page No 9								236.97				
							Total	236.97	Cum	1855.00	439575.18	
Item No :	11											
Item Name :	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per											
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT	
From Premeasurement Page No 10								343.46				
							Total	343.46	Cum	2001.28	687369.13	
Item No :	12											
Item Name :	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications with all lead and lift and as per the direction of Engineer in charge											
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT	
From Premeasurement Page No 11								1579.90				
							Total	1579.90	Sqm	29.68	46888.02	

Assistant Executive Engineer
Road Infrastructure. (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Engineer

Asst. Executive Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Item No :	13										
Item Name :	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge										
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT
Item Premeasurement Page No 12											
								2557.11			
							Total	2557.11	Sqm	5.30	13552.68
Item No :	14										
Item Name :	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge										
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT
Item Premeasurement Page No 13											
								4136.90			
							Total	4136.90	Sqm	12.72	52621.30
Item No :	15										
Item Name :	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen with all lead and lift and as per the direction of Engineer in charge										
CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT	RATE	AMOUNT
Item Premeasurement Page No 14											
								157.52			
							Total	157.52	Cum	6858.20	1080288.23

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Engineer

Asst. Executive Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurement taken on :

Item No : 16

Item Name : Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using - do - using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) with all lead and lift and as per the direction of Engineer in charge

CHAINAGE FROM	CHAINAGE TO	NO	L (M)	B(1)	B(2)	B(Avg)	D(M)	QTY	UNIT		
Bhadrappa Layout Mn Road											
FROM Ch: 588.00m											
588.00	618.00	1	30.00	3.60	3.80	3.70	0.040	4.44			
618.00	636.20	1	18.20	3.80	3.60	3.70	0.040	2.69			
636.20	666.20	1	30.00	5.70	7.20	6.45	0.040	7.74			
666.20	696.20	1	30.00	7.20	9.00	8.10	0.040	9.72			
696.20	701.00	1	4.80	9.00	10.20	9.60	0.040	1.84			
701.00	717.60	1	16.60	9.00	8.50	8.75	0.040	5.81			
717.60	747.60	1	30.00	9.70	9.50	9.60	0.040	11.52			
747.60	777.60	1	30.00	9.50	9.70	9.60	0.040	11.52			
777.60	807.60	1	30.00	9.70	10.20	9.95	0.040	11.94			
807.60	837.60	1	30.00	10.20	10.20	10.20	0.040	12.24			
837.60	865.20	1	27.60	10.20	13.20	11.70	0.040	12.92			
865.20	895.20	1	30.00	7.70	7.80	7.75	0.040	9.30			
895.20	908.10	1	12.90	7.80	7.40	7.60	0.040	3.92			
Patch		1	7.50	4.20	4.00	4.10	0.040	1.23			
Car Wash Store Road											
0.00	30.00	1	30.00	7.60	7.00	7.30	0.040	8.76			
30.00	60.00	1	30.00	7.00	6.50	6.75	0.040	8.10			
60.00	90.00	1	30.00	6.50	6.10	6.30	0.040	7.56			
90.00	120.00	1	30.00	6.10	7.30	6.70	0.040	8.04			
120.00	150.00	1	30.00	7.30	6.60	6.95	0.040	8.34			
150.00	180.00	1	30.00	6.60	6.40	6.50	0.040	7.80			
180.00	210.00	1	30.00	6.40	6.30	6.35	0.040	7.62			
210.00	219.10	1	9.10	6.30	7.00	6.65	0.040	2.42			
				Total				165.48	Cum	8049.64	1332020.62

Total	4047663.43
4% KRIDL Charges	161906.54
12% GST Charges	485719.61
Grand Total	4695289.58

Measurement date : 17/03/2020.

8/5/20

Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

12/3/2020

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Executive Engr.
Nagar, Sub-Division
DL, BBMP, Bangalore

Contractor

Consultant

Assistant Engineer

Asst. Executive Engineer

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